# Exercise 1

## 1.1

SELECT CustomerID, CompanyName, Address, City, Region, PostalCode, Country

FROM Customers

WHERE City = 'London' OR City = 'Paris';

## 1.2

SELECT \*

FROM Products

WHERE QuantityPerUnit LIKE '%bottles%'

## 1.3

SELECT \*

FROM Products

LEFT JOIN Suppliers ON Products.SupplierID = Suppliers.SupplierID

WHERE QuantityPerUnit LIKE '%bottles%';

## 1.4

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## 1.5

SELECT CONCAT(TitleOfCourtesy, ' ', FirstName, ' ', LastName), City

FROM Employees

## 1.6

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## 1.7

SELECT COUNT(Freight) FROM Orders

WHERE (ShipCountry=’UK’ OR ShipCountry = ‘USA’) AND Freight>100.0;

## 1.8

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# Exercise 2

## 2.1

USE Northwind

CREATE TABLE Spartans(

SpartanID int,

Title varchar(255),

FirstName varchar(255),

LastName varchar(255),

University varchar(255),

Course varchar(255),

Mark varchar(255)

);

## 2.2

INSERT INTO Spartans (SpartanID, Title, FirstName, LastName, University, Course, Mark)

VALUES (1, 'Mr', 'Paul', 'Brewer', 'Hull', 'Computer Science', '1st')

INSERT INTO Spartans (SpartanID, Title, FirstName, LastName, University, Course, Mark)

VALUES (2, 'Mr', 'Jack', 'Farmer', 'Leeds', 'Physics', '2:1')

INSERT INTO Spartans (SpartanID, Title, FirstName, LastName, University, Course, Mark)

VALUES (3, 'Mr', 'Joyel', 'Shaju', 'Coventry', 'Computer Science', '1st')

INSERT INTO Spartans (SpartanID, Title, FirstName, LastName, University, Course, Mark)

VALUES (4, 'Mr', 'Mohammad', 'Khwaja', 'Westminster', 'Electrical Engineering', '2:2')

INSERT INTO Spartans (SpartanID, Title, FirstName, LastName, University, Course, Mark)

VALUES (5, 'Mr', 'Thomas', 'Briggs', 'Bournemouth', 'Excercise Science', '1st')

INSERT INTO Spartans (SpartanID, Title, FirstName, LastName, University, Course, Mark)

VALUES (6, 'Mr', 'Shaqi', 'Abdullah', 'Brunel', 'Mechanical Engineering', '2:1')

INSERT INTO Spartans (SpartanID, Title, FirstName, LastName, University, Course, Mark)

VALUES (7, 'Mr', 'Zaid', 'Iqbal', 'Queen Mary', 'Computer Science', '2:1')

INSERT INTO Spartans (SpartanID, Title, FirstName, LastName, University, Course, Mark)

VALUES (8, 'Miss', 'Elizabeth', 'Nicholl', 'Canterbury Christ Church', 'Sport and Excercise Science', '1st');

# Exercise 3

## 3.1

USE Northwind

SELECT e1.FirstName, e1.LastName, e2.FirstName, e2.LastName

FROM Employees as e1

LEFT JOIN Employees as e2 ON e1.ReportsTo = e2.EmployeeID;

## 3.2

USE NORTHWIND

SELECT Suppliers.CompanyName, SUM([Order Details].UnitPrice \* (1 - Discount)\* Quantity) AS TotalSales

FROM [Order Details]

JOIN Products ON [Order Details].ProductID = Products.ProductID

JOIN Suppliers ON Products.SupplierID = Suppliers.SupplierID

GROUP BY Suppliers.CompanyName

HAVING SUM([Order Details].UnitPrice \* (1 - Discount)\* Quantity) > 10000

ORDER BY SUM([Order Details].UnitPrice \* (1 - Discount)\* Quantity);

## 3.3

USE Northwind

SELECT TOP 10

CustomerID AS 'Customer',

SUM(UnitPrice \* Quantity \* (1-Discount)) AS 'Total Sales'

FROM Orders O

JOIN [Order Details] OD

ON O.OrderID = OD.OrderID

GROUP BY CustomerID, OrderDate

HAVING YEAR(OrderDate) = 1998

ORDER BY "Total Sales" DESC;

## 3.4

USE Northwind

SELECT CONCAT(MONTH(OrderDate), ', ', YEAR(OrderDate)) AS 'Date of Order', AVG(DATEDIFF(DAY, OrderDate, ShippedDate)) AS 'Average ShipTime (Days)'

FROM [Orders]

GROUP BY YEAR(OrderDate), MONTH(OrderDate)

ORDER BY YEAR(OrderDate), MONTH(OrderDate)